

SEPTAGE PROGRAM --OVERVIEW--

Frederick J. Hegeman, P.E.

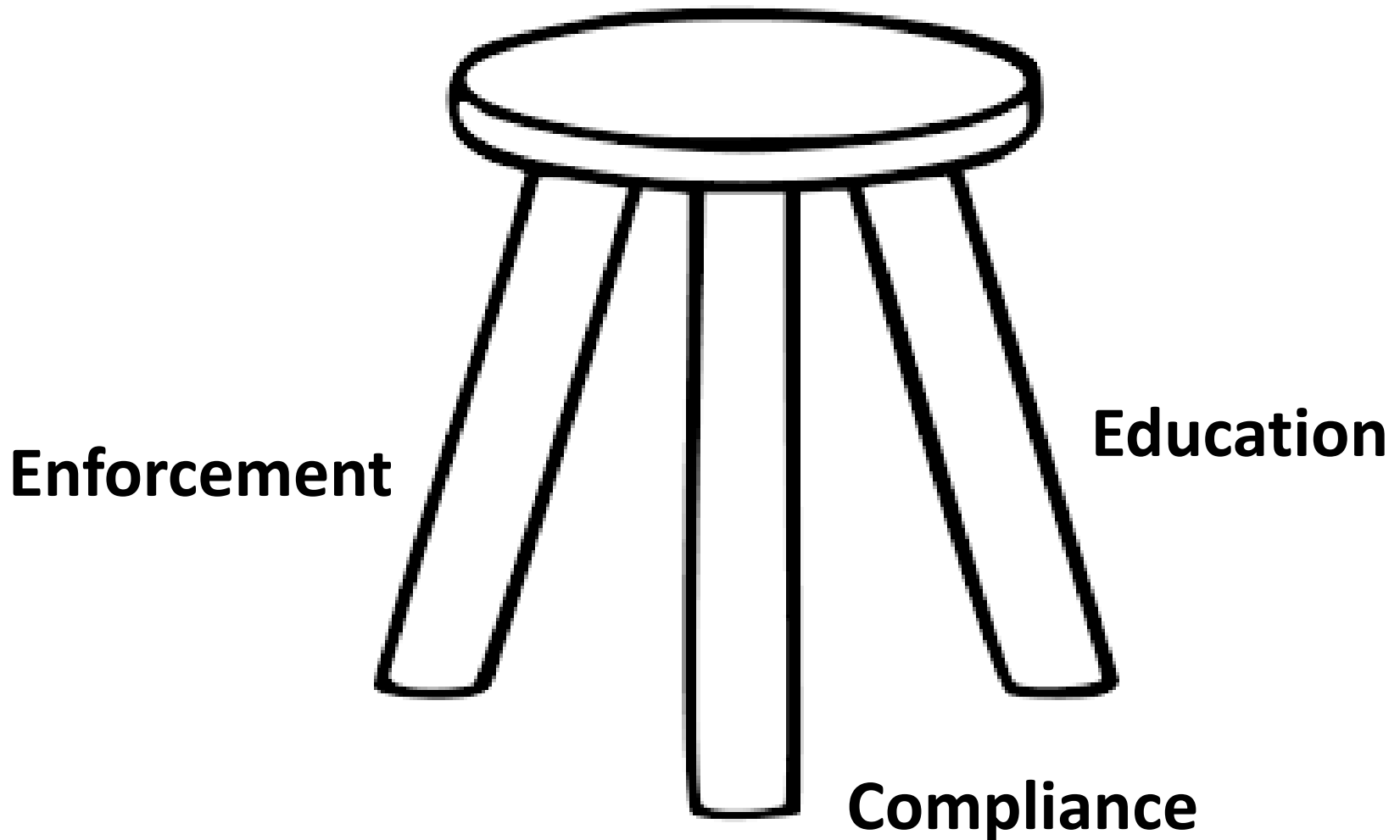
WISCONSIN DNR

Frederick.Hegeman@Wisconsin.gov

Rev. August 22, 2017



REGULATORY PROGRAM



REGULATORY PROGRAM

3 Legged Stool

- Education through continuing education
- Compliance through audits
- Enforcement through Stepped Enforcement...using as little enforcement as necessary to achieve compliance

GOAL:

Level Playing Field-No unfair advantage

PERTINENT REGULATIONS

- 40 CFR 503
- S. 281.48, Wis. Stats., Septage Program
- S. 281.17, Wis. Stats., Certification
- S. 145.20, Wis. Stats., Plumbing/POWTS
 - (5) Co. Maintenance Program Requirements
- Ch. NR 113, Wis. Adm. Code, Septage Program
- Ch. NR 114, Wis. Adm. Code,
 - Subch. II, Cert. o Septage Servicing Operators

40 CFR 503 Related

Wis. Septage program

- Not Delegated (Penalty issue)
- No state is delegated in septage program

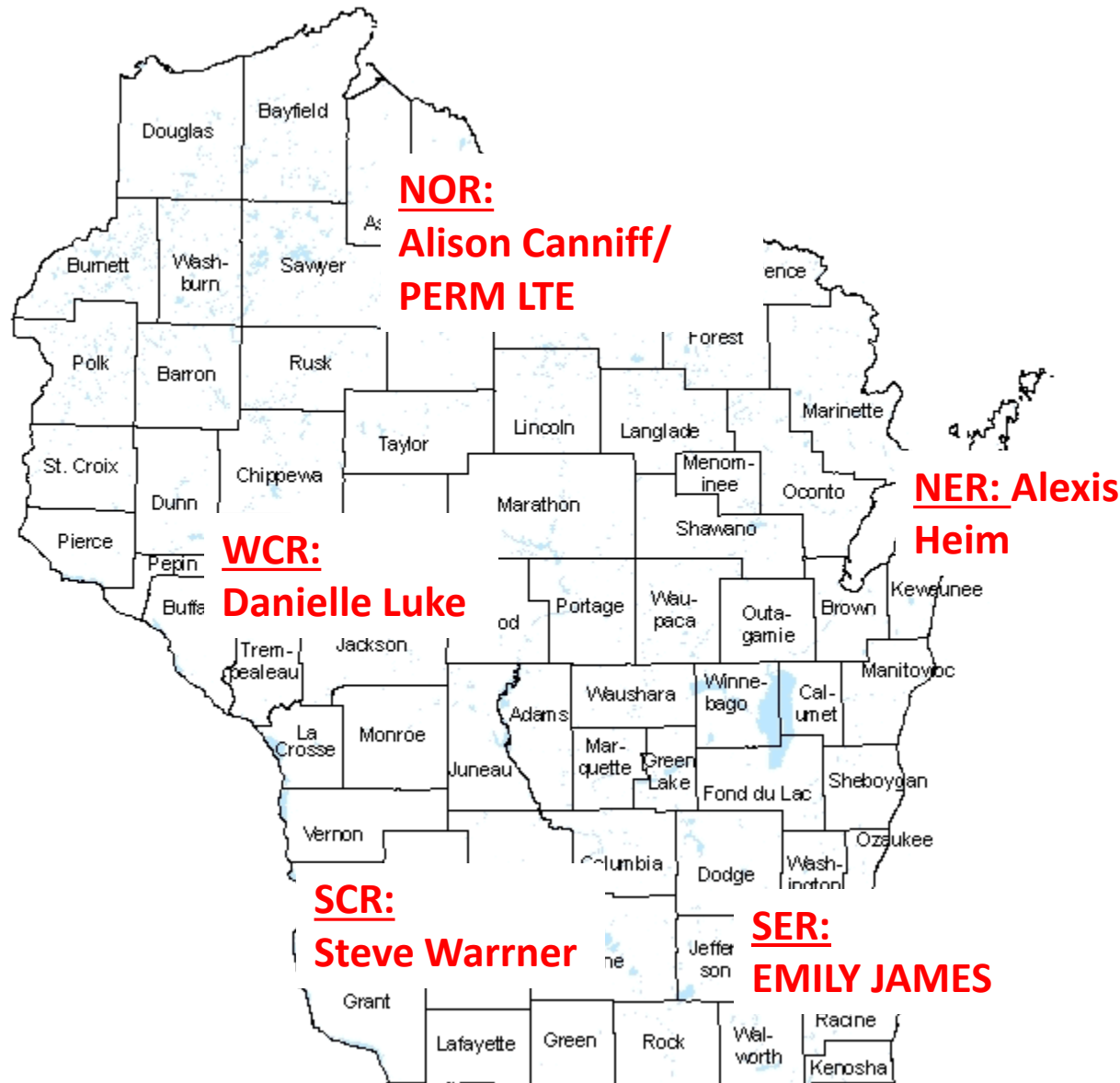
40 CFR 503

- State may impose more stringent requirements
- 1-7 included into NR 113

40 CFR 503 Focuses on:

1. Domestic Septage Only
2. Non-Public Contact Sites
3. Manage for Pathogens
4. Manage for Vectors
5. Landowner: crop harvesting, grazing, site access restrictions
6. Certification required for pathogens/vectors
7. Nitrogen concerns
8. Follow State Rules

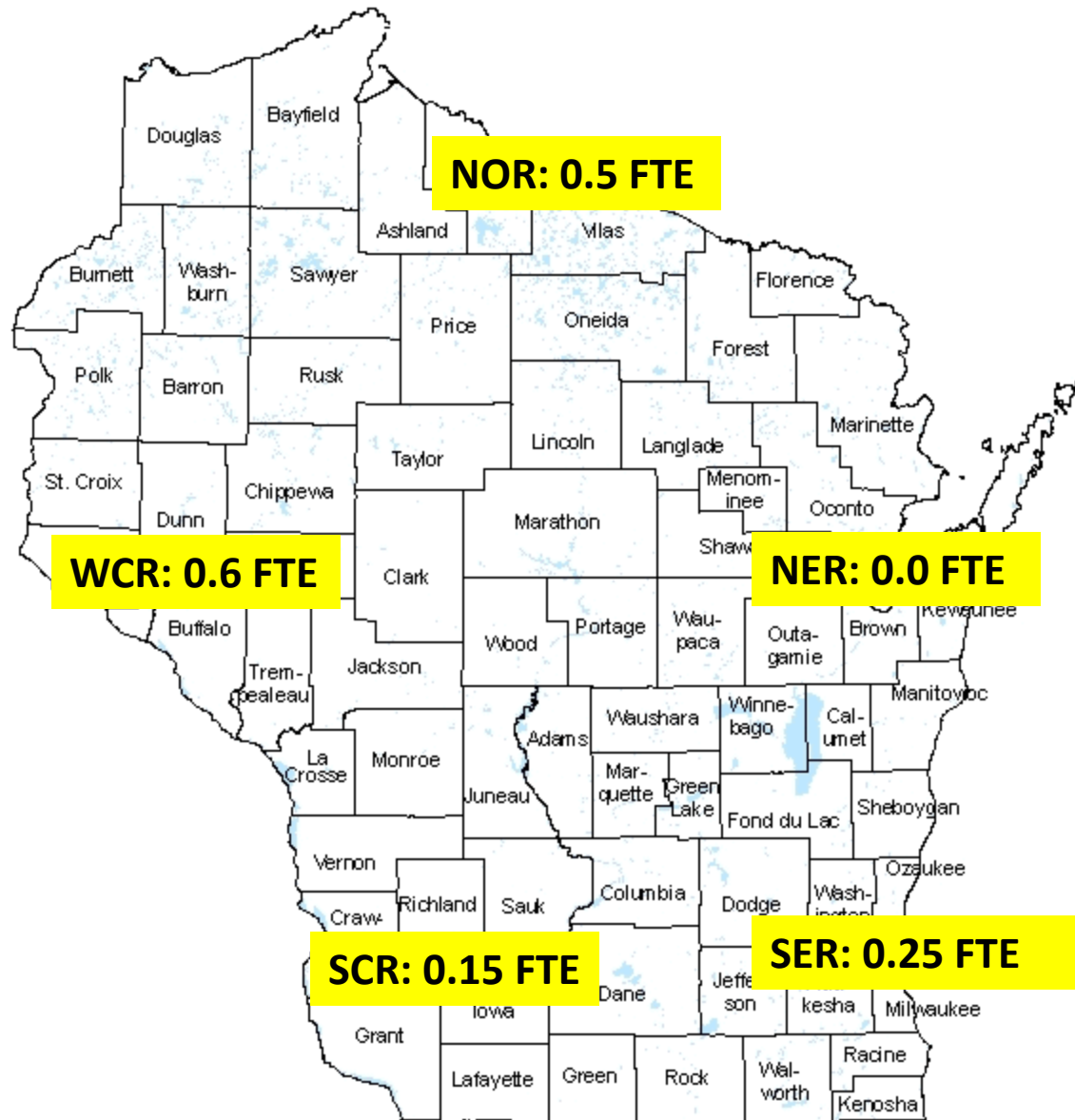
CURRENT PROGRAM STAFFING



Op Cert Septage:
Mallory Palmer
Rachel Angel

Prog-Statewide:
Fred Hegeman

ALLOTTED PROGRAM STAFFING



Op Cert Septage

0.5 FTE Cert. Coord

0.5 Cert. TEMP

Prog-Statewide

0.1 FTE

Total: 2.1 FTE

REQUIREMENTS TO OBTAIN M.O. and O-I-C DESIGNATION

- Obtain 1600 hours of experience
 - Notarized Document
- Attend Mandatory Course
- Pass MO exam associated with course

THE 1600 HOUR EXPERIENCE STATEMENT



- “I certify that I have at least 1600 hours of septage servicing, hauling & disposal experience over the course of at least 1 calendar year”.
- Describe your knowledge of NR113 & NR114 and examples of duties you perform on a regular basis.
- Statement must be signed by the operator and notarized (at a local bank or courthouse).

MASTER OPERATOR CERTIFICATION

- Master Operator (MO)
 - More knowledgeable certification level
 - Next step in becoming an Operator-in-Charge (OIC)
 - Created to allow for succession planning.
- Multiple MOs allowed in a business
- Only one MO appointed as the OIC for the business

O-I-C RESPONSIBILITIES

As the OIC you are (cont):

- Principal Responsible Party
 - Employee messes—you mess up!
- Signatory Authority
 - DNR Audits (Any citations/DOJ Referrals)
 - EPA Audits (Any federal penalties)
- Record keeper (Oversight)
 - Invoices, Daily Logs, Farmer Communication, Certifications (licenses), Certifications (pathogen control & vector attraction reduction)
- Annual Report Submitter
 - Annual Reports: 52's, 55's and others

O-I-C RESPONSIBILITIES

As the OIC you are (cont):

- Vehicles
 - Code Compliant
- Managing ALL operations to ensure Compliance
- Communication
 - Employees
 - Farmers/Producers
 - DNR
 - POTWs
 - EPA
 - Neighbors

O-I-C RESPONSIBILITIES

Register any Operator-in-Training

- OIT cannot work until:
 - Registered
 - Payment Received
- Plan Ahead!!!

Responsible for the Operator-in-Training

WIS. ADM. CODE NR 113

NR 113: Servicing Septic or Holding Tanks, Pumping Chambers, Grease Interceptors, Seepage Beds, Seepage Pits, Seepage Trenches, Privies, or Portable Restrooms

Published under s. 35.93, Wis. Stats., by the Legislative Reference Bureau.

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DEPARTMENT OF NATURAL RESOURCES

NR 113.03

Chapter NR 113

SERVICING SEPTIC OR HOLDING TANKS, PUMPING CHAMBERS, GREASE INTERCEPTORS, SEEPAGE BEDS, SEEPAGE PITS, SEEPAGE TRENCHES, PRIVIES, OR PORTABLE RESTROOMS

NR 113.01	Purpose.
NR 113.02	Applicability.
NR 113.03	Definitions.
NR 113.04	General requirements.
NR 113.05	Licensing.
NR 113.06	Vehicle inspections and servicing.
NR 113.07	Disposal of domestic sewage.
NR 113.08	Site evaluation.

NR 113.09	Application rates.
NR 113.10	County regulation.
NR 113.11	Department regulation.
NR 113.12	Septage storage facilities.
NR 113.13	Suspension and revocation.
NR 113.14	Enforcement.
NR 113.15	Variance.

Note: Chapter NR 113 as it existed on September 30, 1987 was repealed and a new chapter NR 113 was created effective October 1, 1987. Chapter NR 113 as it existed on December 31, 1996, was repealed and a new chapter NR 113 was created effective January 1, 1997, corrections made under s. 13.93 (2m) (b) 7, Stats., Register, January, 1999, No. 517.

NR 113.01 Purpose. The purposes of this chapter are to establish standards for the servicing of private sewage systems including septic and holding tanks, dosing chambers, grease interceptors, seepage beds, seepage pits, seepage trenches, privies and portable restrooms; to provide for the use and disposal of wastewater from these sources while protecting public health from unsanitary and unhealthful practices and conditions; and to protect surface waters and groundwaters of the state from contamination by septage.

History: Cr. Register, September, 1996, No. 489, eff. 1-1-97.

NR 113.02 Applicability. This chapter applies to licensed haulers, owners and any person servicing private sewerage systems including septic and holding tanks, dosing chambers, grease interceptors, seepage beds, seepage pits, seepage trenches, privies and portable restrooms. The following services are exempt from these rules:

- (1) The transport of industrial wastes which are regulated under ch. NR 214.
- (2) The transport of animal excrement and associated bedding.
- (3) The use or disposal of hazardous waste which is regulated under chs. NR 660 to 670.
- (4) The use or disposal of solid waste which is regulated under chs. NR 500 to 538.
- (5) The use or disposal of POTW sludge which is regulated under ch. NR 204.
- (6) The use or disposal of septage that has been treated by facilities which are operated under a Wisconsin pollutant discharge elimination system (WPDES) discharge permit, including centralized septage treatment facilities, which are regulated under ch. NR 204.

History: Cr. Register, September, 1996, No. 489, eff. 1-1-97, corrections in (3) and (4) made under s. 13.92 (4) (b) 7, Stats., Register February 2010 No. 650.

NR 113.03 Definitions. In addition to the definitions and abbreviations in s. 281.48, Stats., the following definitions apply to terms used in this chapter:

- (1) "Agricultural land" means land on which a food crop, a feed crop or fiber crop will be grown within 12 months after septage is applied to the land. This includes range land and land used as pasture.
- (2) "Agronomic rate" means the total septage application rate (dry weight basis) designed to provide the amount of nitrogen needed by the food crop, feed crop, fiber crop, cover crop or other vegetation grown on the land and designed to minimize the

amount of nitrogen in the septage that passes below the root zone of the crop or vegetation grown on the land to the ground water.

(3) "Application rate" means the hydraulic loading limits placed on a landspreading site or field normally expressed as gallons/acre/week.

(4) "Approved site" means property approved by the department or its agent for the disposal, recycling or storage of septage.

(5) "Available nitrogen" means the nitrogen present in the septage in the $\text{NH}_3\text{-N}$ form and the nitrogen that is mineralized from the organic nitrogen in the septage, both of which can then be absorbed and assimilated by growing plants in the cropping year.

(6) "Available water capacity" means the amount of water which is readily held by the soil and available for plant uptake. Available water holding capacity shall be calculated using the following table or other method acceptable to the department:

		Factor for Use in Calculation of Available Water Capacity (inch/inch)
Textural Classification System		
Commerce	USDA	
Sand	Sand	0.02
	Loamy Sand	
Sandy Loam	Sandy Loam	0.10
Loam	Loam	0.20
Silt Loam	Silt Loam	0.22
	Silt	
Clay Loam	Sandy Clay Loam	0.19
	Clay Loam	
	Silty Clay Loam	
Clay	Sandy Clay	0.17
	Silty Clay	
	Clay	

Note: The following method can be used to show that the soil has 5 inches of available water capacity:
Multiply the number of inches of each soil texture in the soil profile (above groundwater and bedrock) by the appropriate factor given above.

Example:

10 inches of sandy loam	$10 \times .1$	$= 1$
20 inches of loam	$20 \times .2$	$= 4$
10 inches of silt loam	$10 \times .22$	$= 2.2$
Calculated available water table		7.2

Published under s. 35.93, Stats., Updated on the first day of each month. Entire code is always current. The Register date on each page is the date the chapter was last published. Report errors (608) 266-3151.

Register February 2014 No. 698

NR 113 COMPONENTS

Health Codes

- Health Department
- Licensing Requirements
- Truck Requirements
- Land Application/Sites

Federal Code

- 40 CFR 503: Land Application
 - Nutrients: Nitrogen
 - Pathogen Control
 - Vector Attraction Reduction

NR 113 RESULTS

Comprehensive code that is very similar to EPA requirements for Land Application except:

Major Differences

- Grease Interceptor Waste
- Somewhat less restrictive
 - daily logs,
 - pathogen control,
 - vector attraction reduction
 - nutrient management.

NR 113: SEPTAGE

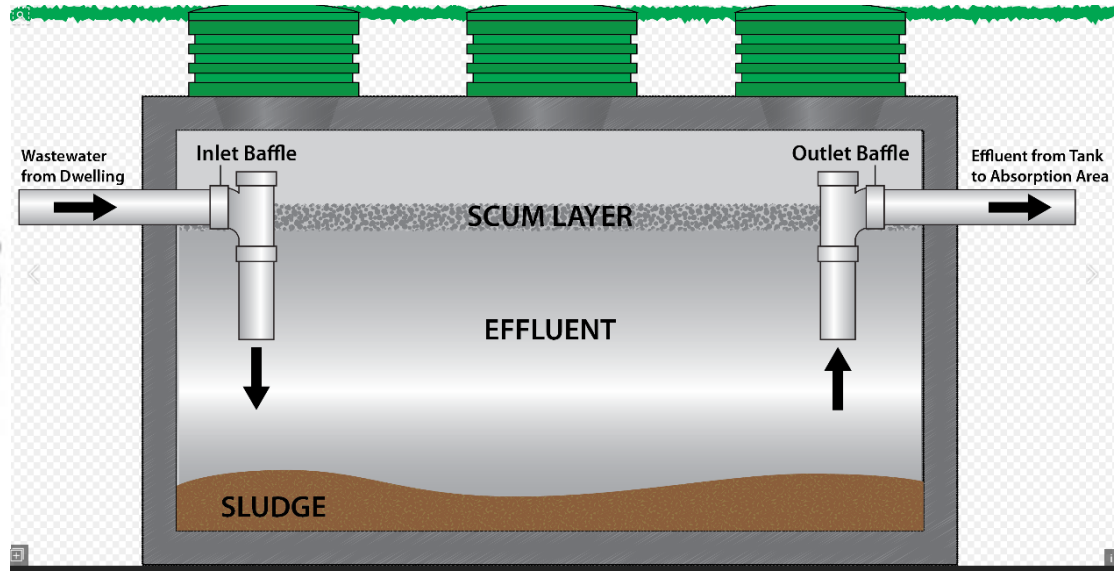
DOMESTIC SEPTAGE: Defined as the wastewater, or contents of septic or holding tanks, dosing chambers, grease interceptors, seepage beds, seepage pits, seepage trenches, privies or portable restrooms. [NR 113.03 (55)]

SEPTAGE

What is it? Contents from...

- Holding Tank
- Septic Tank
- Dosing Chambers
- Grease Interceptors
- Seepage Beds, Trenches, Pits
- Privies
- Portable Restrooms

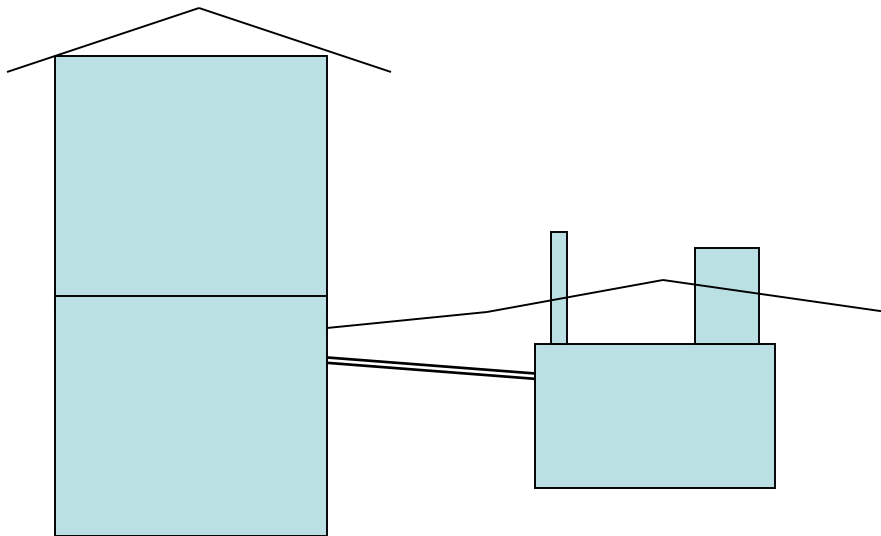
DOMESTIC SOURCES/WASTES



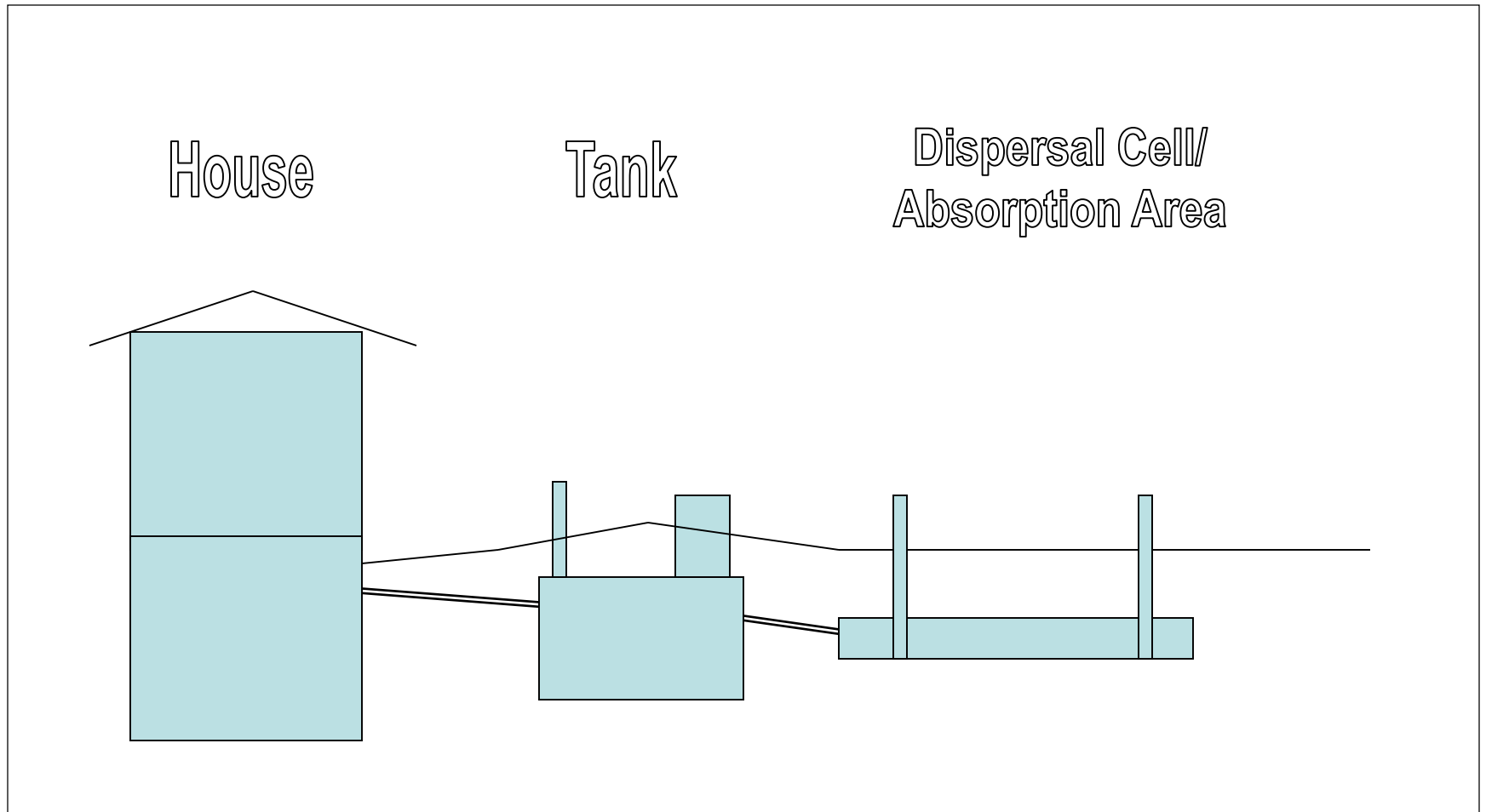
Holding Tank

House

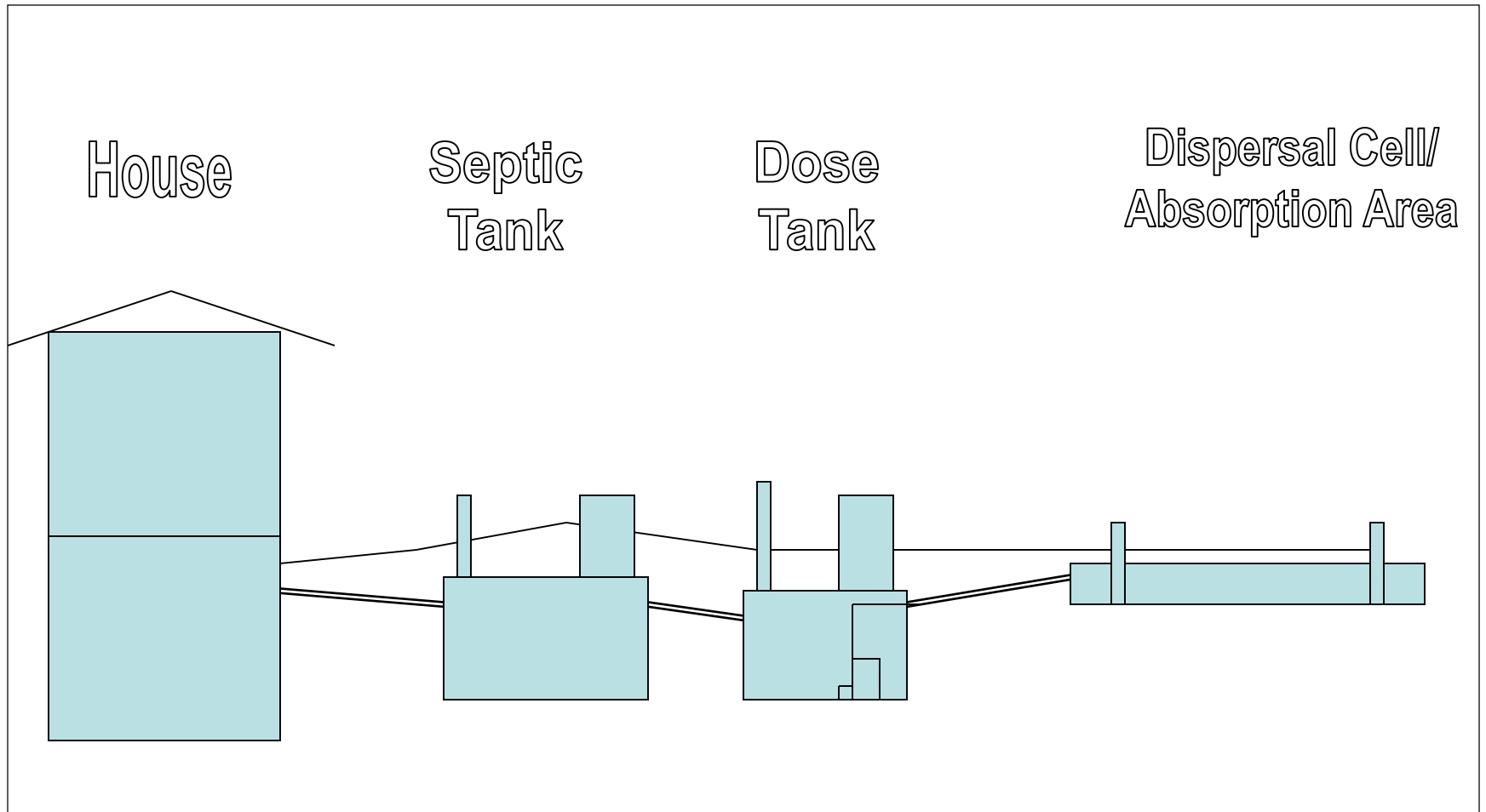
Holding Tank



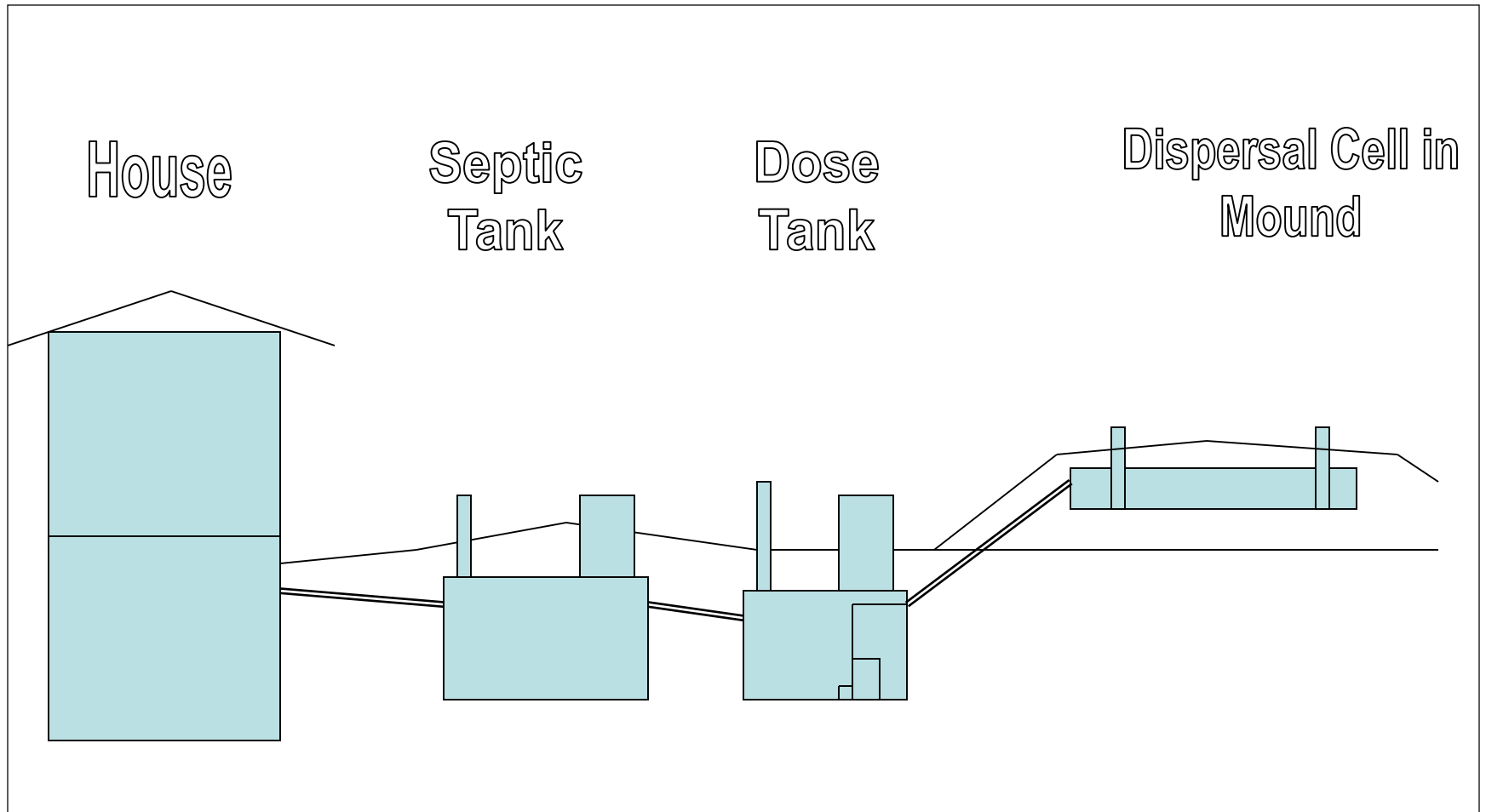
Conventional or In-Ground



Conventional or In-Ground w/Dose Station

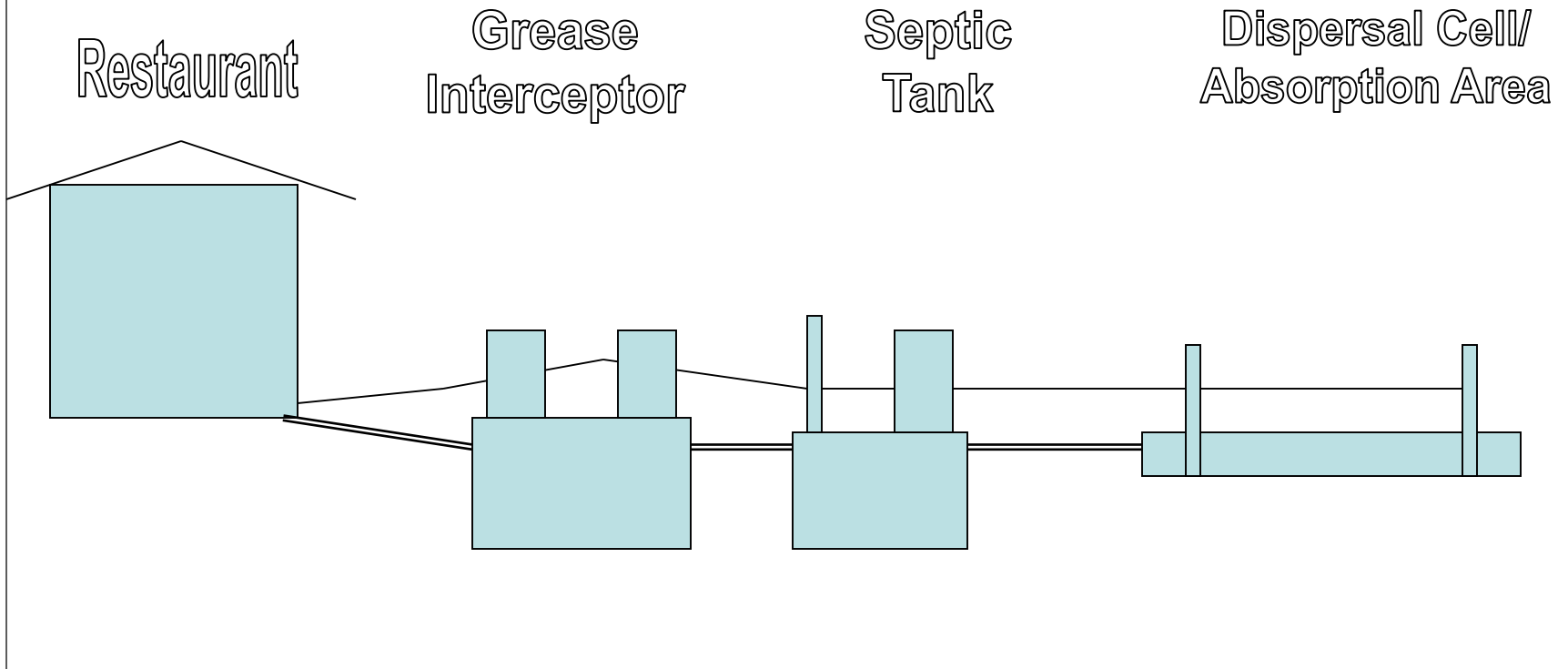


Mound or At-Grade w/Dose Station



Grease Interceptor(s)

Note: Grease Interceptors also found inside





Portable Restrooms & Privies



NON-DOMESTIC SEPTAGE

- Commercial Septage
 - Vehicle Repair Facilities, Body Shops, County Shops, Any shop where vehicle service is performed
 - Disposed at POTWs if willing to accept
 - Characterization of Waste
 - You are responsible
 - Industrial Waste Processors (Big \$\$\$)
 - Characterization of Waste
 - You are responsible
 - Others
 - Laundromats
 - Car Wash
 - Butcher Shops
 - Beauty Salons

Non-Domestic Waste



NON-DOMESTIC SEPTAGE

- Industrial Septage
 - Heavy Industry: Petroleum based Solvents & Oils
 - Food Processing: Greases, Oils, By-Products, Solids
 - Other

Know what you are hauling!

Obtain the proper permits & licenses!

Industrial Wastes



NOT SEPTAGE

What it is NOT...

- Industrial (NR 214)
 - Liquid Wastes
 - Car Wash Liquids
 - By-Product Solids
 - Slaughterhouse Parts
 - Sludges
 - Process Grease
 - Accumulated solids from phys, chem, bio trtmnt
- Biosolids (Sewage Sludge) (NR 204)
- Solid Wastes (NR 500-536)
- Haz Waste (NR 660-670)
- Animal Wastes

WIS. ADM. CODE NR 113

Purpose: Provide for the use and disposal of wastewater from septic and holding tanks, dosing chambers, seepage pits, seepage beds, seepage trenches, privies, and portable restrooms while protecting public health from unsanitary and unhealthful practices and conditions.

NR 113: SERVICING

SERVICING: Defined as **removing** the scum, liquid, or other wastes from a private sewage system such as septic or holding tanks, dosing chambers, grease interceptors, seepage beds, seepage pits, seepage trenches, privies or portable restrooms.

CERTIFICATION RENEWALS

- **Certified Operators:**
 - NON MO / OIC: Grade L or Grade T
 - 3 credits to renew every 3 years –must be code / compliance related training
- **MO / O-I-C**
 - Either Grade L or Grade T certified
 - 18 credits to renew every 3 years
- **Two Grades: L and T**

WIS. ADM. CODE NR 113

BUSINESS: Definition includes:

- Individual
- Partnership
- Corporation
- Body Politic

BUSINESS LICENSES

Business is defined as:

- Any individual, partnership, corporation or body politic that does servicing.

~430 Business Licenses

~1200 Certifications

~1000 Vehicles

Business License

- GW Fee \$100/2 yrs
- Resident: \$50/2 yrs/veh
- Non-Res: \$100/2 yrs/veh
- Veh. Inspection req'd
- Annual forms completed

LICENSE / CERTIFICATE RENEWALS

NR 114: Certification Renewals

- Certified Operator: Renewal every 3 years
- MO / OIC: Renewal every 3 years

NR 113: Business License Renewal

- Renewal every 2 years

ADDRESS CHANGES

- **15 Day notice required**
- **OIC responsible for the business**

WIS. ADM. CODE NR 113

SERVICING: Means removing the scum, liquid, sludge, or other wastes from a private sewage system such as a septic or holding tanks, dosing chambers, grease interceptors, seepage beds, seepage trenches, privies or portable restrooms and properly disposing or recycling of the contents as providing in NR 113.

WIS. ADM. CODE NR

113/114

WHO CAN SERVICE:

- Master Operator
- Certified Operator
- Operator-in-Training
- Portable Restroom Servicing Attendant**

WIS. ADM. CODE NR

113/114

****Portable Restroom Servicing Attendant:**

- Service a septic tank **NO**
- Service a holding tank **NO**
- Service a portable restroom **YES**
- Transport portable restroom waste **YES**
- Land Apply **NO**

CERTIFICATIONS-Individuals

Operator-in-Training (OIT)

- 12 months-no renewal
- Works under Operator-in-Charge
- Exam to be Certified Operator
- Grade T-Treatment Plant Only Disposal
- Grade L-Land Application upgrade from Grade T
- \$25 reg. fee

Certified Operator

- Grade T or Grade L
- 3 year renewal cycle
- 3 compliance credit requirement
- \$65 renewal fee

CERTIFICATIONS-Individuals

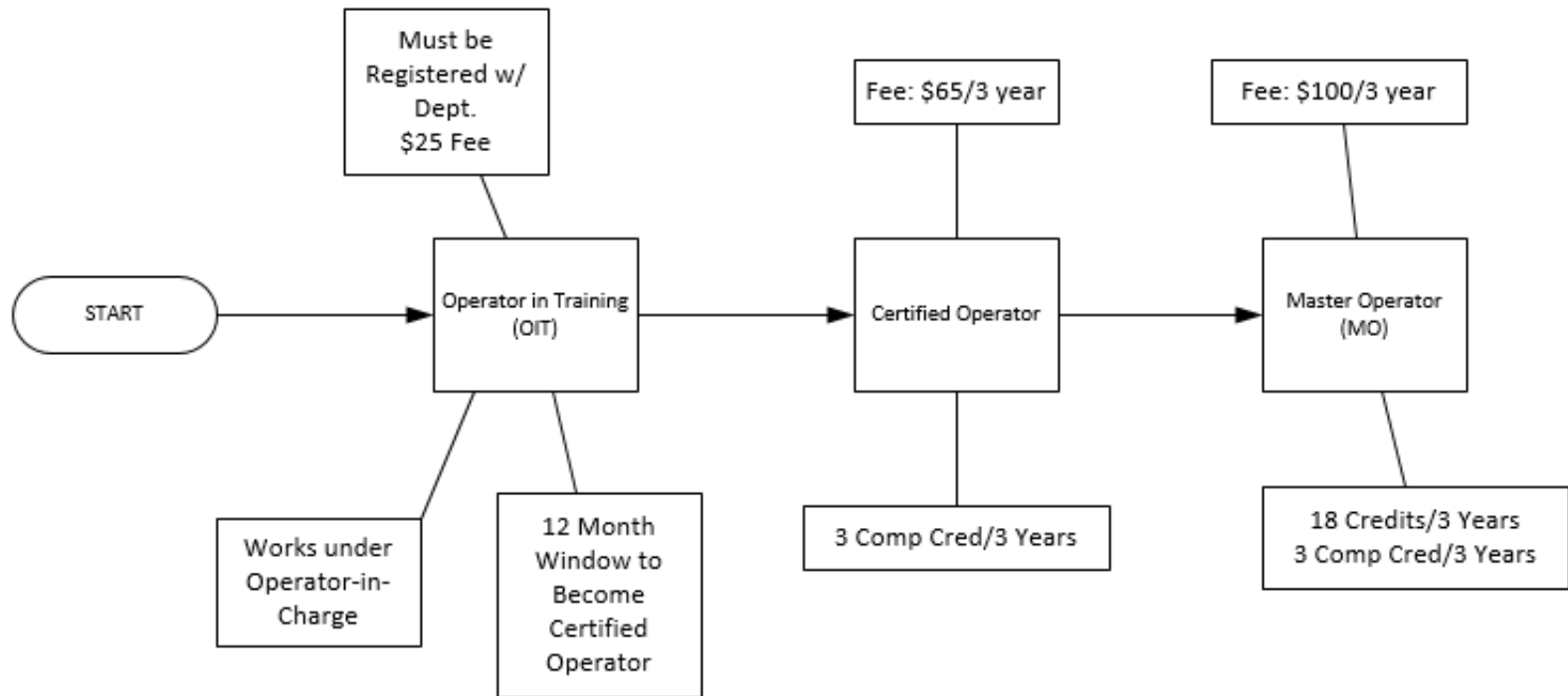
MASTER OPERATOR (MO)

- Grade T or Grade L
- 3 year renewal cycle
- 3 compliance credit requirement
- 15 general septage credit requirement
- \$100 fee

OPERATOR-IN-CHARGE (OIC)

- MO is designated by OWNER to be OIC.
- OIC responsible for business operation
- OIC responsible for all OIT activities

CERTIFICATION PROGRESSION



“NEWER” STATUTES/CODES

- **Can't issue/renew Licenses/Certificates if you are:**
 - In arrears on tax payments or
 - Behind on child support payments
- **County Requirement to Identify Septic Systems**
 - Counties must Identify & Employ Maintenance System
- **Farmer Certification**
 - NR113 Code section is not correct! Refer to ch 281.48 Wis. Stats.

COUNTY PROGRAMS

County Reporting:

- Not required pursuant to NR 113 **–BUT–**
- Required per county ordinance

Counties provide DNR insight into your operation

- Enforcement Decisions
 - Paper Audits
 - Truck Audits
 - Field Audits

VEHICLE REQUIREMENTS

- Valid Business License Sticker on Rear
- Wisconsin Sanitary Licensee - on each side License No. xxxx
- Tank Capacity on Rear
- Cab actuated Valve **IF** land apply
- Splash Plate **IF** land apply (ensure uniform app)

VEHICLE REQUIREMENTS

- Caps on tank discharge ends
- Leak Prevention for Hoses
- Spill containment tools
- Tools for clean up
- Other tools for performing your duties
- Bleach/Lime
- Personal protective equipment

RECORD KEEPING IN VEHICLES

Each Vehicle must be equipped with:

- Last 2 days of servicing records (log or invoices)
- Spill plan with emergency contact info
- Copy of NR 113

LOG BOOK

- Name and Address of system serviced
- Date and Time of servicing
- Type of system serviced & waste type pumped
- Gallons collected at each servicing
- Location of Land application site or POTW name/WPDES Number
- Refer to NR 113.11(3)(c)

LOG BOOK

- Date and time of land application or
- Date and time of discharge at POTW
- Certification statement (per annual report)
- Description (SOP) of how pathogen control is met
- Description (SOP) of how vector control is met

SERVICE RECORDS

- Name of Owner
- Address, City
- Identifying Location
- Waste Type
- Gallons
- Date & Time Serviced

RECORD KEEPING

- Logs or Invoice Record System
- Certification Form

CERTIFICATION STATEMENT

“I certify, under penalty of law, that the information that will be used to determine compliance with the pathogen requirements [insert either NR 113.07 (3) (d) 1. a. or NR 113.07 (3) (d) 1. b.] and the vector attraction reduction requirement in [insert NR. 113.07 (3) (e) 1., NR 113.07 (3) (e) 2., or NR 113.07 (3) (e) 3.] has been prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification.”

MISC. SERVICING REQUIREMENTS

- Leave property in Sanitary Condition
- Water used for flushing servicing tanks shall be disposed as though it were septage
 - Do not count on the annual report

DISPOSAL OPTIONS

- Land Application
- POTW or WWTP
- WPDES Permitted Facilities
 - Storage
 - No Dedicated Septage Treatment Units
 - Farm Digesters...NOT APPROVED FOR SEPTAGE...YET

SPILL REPORTING

- Any Accidental Spill: Render it harmless!
- 50 gallons or more: Report to Spill Hotline
 - Within 24 Hours
 - 800-943-0003

SPILL REPORTING

- Add Hotline Number to Spill Plan
- Spill Plan to include:
 - Cons. Warden Name/Phone
 - Regional Septage Contact
 - Other Pumpers
 - Emergency Contacts
- Get to know the Local Police/Fire Department

ANNUAL REPORTS

- Other Methods of Disposal/Distribution
 - Form 3400-052
- Land Application Report
 - Form 3400-055
- Due: Jan 31 of the following year
- **OIC is Responsible** for form completion!!
- All forms are through Electronic Reporting (eReporting)

ANNUAL REPORTS

- WAMS ID
 - User Name & Password
 - Wisconsin Dept. of Administration
- SWITCHBOARD REGISTRATION
 - Allows you to communicate with your computer to DNR computer
 - 3 Roles: Data Entry, Data Submitter, Confirmation
- FORM COMPLETION: Both Forms!!

“52” OTHER METHODS OF DISPOSAL/DISTRIBUTION

“Did you Dispose of SEPTAGE in any other Methods than Land Application”

If NO,

- Select NO,
- Delete Data Line,
- Save & Validate eForm
- Certify the eForm

“52” OTHER METHODS OF DISPOSAL/DISTRIBUTION

IF YES,

- End use:
 - “A” Transfer to **ANOTHER** Permitted Facility
 - “H” **HAUL** out of state
 - “M” **MANURE** Storage Structure
- Facility Name/WPDES #
- Outfall Number
 - 990 Septage, 995 Holding Tank, 997 Grease
- Volume in gallons

OTHER METHODS OF DISPOSAL OR DISTRIBUTION REPORT

Section 283.55(1) or 281.48(3)(b), Wis. Stats.

Form 3400-52 Rev. 11-97

Page 1 of 1

Submit report annually by January 31.

2. Year submitted for: 1997

RETURN FORM TO: BUREAU OF WATERSHED MANAGEMENT
POINT SOURCE TECHNICAL EVALUATION SECTION
101 S. WEBSTER STREET
MADISON, WI 53707

PLEASE REVIEW INSTRUCTIONS ON BACK.

1. WPDES Permit No. _____ or License No. 0000

Permittee/Licensee Name DNR SEPTIC

FID No. _____

County DANE

Total Municipal Sludge Generated: _____ UNITS: _____
(If Applicable) (Gal., Tons, Metric Tons or Cubic Yards)Total Municipal Sludge Landfilled,
Incinerated, or EQ Distributed: _____ UNITS: _____
(If Applicable) (Metric Tons)

3. End Use*	4. DNR Permit/License Number of Receiving Entity	5. Name of Treatment or Receiving Entity	6. Outfall Number**	7. Total Amount Treated, Disposed or Distributed	8. Units (Gal., Tons, Metric Tons or Cubic Yards)
A	0058888	CITY OF X POTW	990	100,000	GAL
A	0058888	CITY OF X POTW	995	75,000	GAL

Comments: _____

* L = Landfill, I = Incinerate, E = Produce an exceptional quality product, M = Manure Pit, A = Another facility for further treatment and/or ultimate disposition, H = Hauled out-of-state for further treatment and/or ultimate disposition.

** If the waste applied is septage, indicate 990 if septic tank waste, 995 if holding tank waste, or 997 if more than 25% grease interceptor waste.

Completion and submission of this form is mandatory under section 283.55, Wis. Stats., and NR 204 or 214, Wis. Adm. Code, or section 281.48(3)(b), Wis. Stats., and NR 113, Wis. Adm. Code. Failure to properly complete and submit this form is a violation of section 283.91 or 281.48, Wis. Stats., and may result in a monetary penalty and/or imprisonment. Personally identifiable information on this form is not intended to be used for any other purpose.

I hereby certify that to the best of my knowledge, the statements are true and correct.

Signature of Principal Officer or Authorized Agent

Print or Type Name

Title

Date Signed

My name

MY NAME

OWNER/
OPERATOR-IN-CHARGE

1/25/98

“55” LAND APPLICATION REPORT

“Did you Land Apply Septage this Period?”

If NO,

- Select NO,
- Delete Data Line,
- Save & Validate eForm
- Certify the eForm

“55” LAND APPLICATION REPORT

IF YES,

- Separate line for each entry
 - Holding Tank Waste vs. Septage
 - DNR ID Number (Tracking Purposes)
 - Your Site/Field Identification Number
 - Acres actually used *not the acres approved on the site
 - Outfall number (990, 995, 997)
- *log (i.e., daily log) other materials (e.g. milk house waste),
but do not report them on the annual form

“55” LAND APPLICATION REPORT

IF YES, (cont)

- Total gallons applied
- Crop code
 - ***some crops are not suitable for septage application**
- Crop year
 - ***use of crop years may involve you in nutrient management standards**
- Method of application
- Check box for pathogen & vector control

Submit report annually by January 31.

Annual Land Application Report

Form 3400-055 (R 10/01) Page ____ of ____

Notice: Completion and submission of this form is mandatory under s. 283.55, Wis. Stats., and chs. NR 204 or 214, Wis. Adm. Code, or s. 281.48(3)(b), Wis. Stats., and ch. NR 113, Wis. Adm. Code. Failure to properly complete and submit this form is a violation of s. 283.91 or 281.48, Wis. Stats., and may result in a monetary penalty and/or imprisonment. Personally identifiable information on this form is not intended to be used for any other purpose.

2. Year submitted for: 2003

RETURN FORM TO: BUREAU OF WATERSHED MANAGEMENT
BOX 7921
101 S. WEBSTER STREET
MADISON, WI 53707-7921

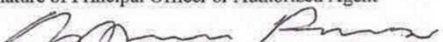
REVIEW INSTRUCTIONS ON BACK.

3. DNR Number	4. Fac. Site No./ Field No.	5. Landowner	6. Acres Land Applied	7. Outfall* Number	8. Amount of Waste Applied	9. Units (Gal., Tons, Metric Tons, Cubic Yards)	10. Nitrogen supplied from Waste (lbs./acre)	11. Other sources of Nitrogen (lbs./acre)	12. Crop Code	13. Crop Year	14. Nitrogen Recom. (lbs./acre)	15. Method	16. Industrial Only Chlorides Applied (lbs./acre)	17. Site no longer used
31835	BS-1	BOB SMITH	20	995	200,000	GAL			1	03		S		
31835	BS-1	BOB SMITH	20	990	75,000	GAL			1	03		S		
31835	BS-1	BOB SMITH	20	995	50,000	GAL			1	04		S		
31835	BS-1	BOB SMITH	20	990	15,000	GAL			1	04		S		

Comments: _____

* If the waste applied is septage, indicate 990 if septic tank waste, 995 if holding tank waste, or 997 if more than 25% grease interceptor waste.

I certify, under penalty of law, that information gathered to determine compliance with applicable pollutant concentrations, pathogen, vector control requirements, and management practices, as specified in Wis. Admin. Code chs. NR 204, 113 or 214 has been prepared under my direction and supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated this information. I am aware that there are significant penalties for false certification, including the possibility of fine and imprisonment.

Signature of Principal Officer or Authorized Agent 	Print or Type Name JAMES HAULER	Title OWNER	Date Signed 11/20/03
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COMMON REPORT ISSUES

- VALIDATING the eForm, but not CERTIFYING the eForm. (Never “loads”)
- NOT completing both forms
- Not logging data separately each day
- NOTES:
 - Submit both forms
 - Keep WAMS ID and Password Secure.
 - Keep WAMS ID where you can find it.

STORAGE

< 25,000 Gallons: Fairly Simple

- Submit DNR Form 3400-137
- Storage vessel meets:
 - the Dept. Safety and Professional Services (Safety and Buildings) seal requirements or
 - Show Structural Integrity (P.E. stamp, plans)
- Above or Below Ground

STORAGE

≥ 25,000 Gallons: **Need MUCH More!**

- Requires a WPDES (Discharge Permit) Permit.
 - Same Permit as Industrial Waste Haulers need for storage tanks.
- Professional Engineer Stamp is generally required.
- Detailed Calculations, Plans & Specifications Pursuant to NR 110 Standards.

SEPTAGE JURISDICTION

Dept. of Safety & Professional Services

- Regulates Septic Systems
 - Siting, Design, Installation & Maintenance
 - Licensing related to above
 - Counties are Agents
- Delegate to Counties
 - Sanitary Permits, Inspections & Monitoring
 - County Ordinances

Dept. of Natural Resources

- Regulates the **disposal** of wastes
 - Licensing of septage operators & businesses
- May delegate some authority to Counties
 - None to date

SEPTAGE JURISDICTION

Dept of Safety & Professional Services vs DNR

- Disconnected Circle
 - Systems could be approved without disposal options
 - (ie, holding tanks could be installed without considering where the wastes would be disposed of)
 - Which licensed person does what and when?
 - DComm license vs. DNR license
 - Expectations that haulers know what installers installed
 - Equipment, Maintenance, Adjustments
 - Haulers – Maintenance
 - Filter Cleaning—Yes; Replacement—NO; Filter Housing—NO
 - Pump Replacement--NO
 - Pipe Replacement—NO

COUNTY MAINTENANCE PROGRAMS

PROS

- Better functioning POWTS
- Groundwater Protection
- Easier to Service

CONS

- Reporting
- More Waste → More Disposal Req'd
- Counties Not Set up for all Servicing Events
- Different reporting systems between counties



TREATMENT PLANT: SEPTAGE RECEIVING

Advantages:

- Revenue source
 - Some plants pay for O&M from septage
- Good public relations
 - City Accepts Septage
 - Rural Accepts Biosolids
- Environmental protection
- No profit allowed—Public Serv. Comm

TREATMENT PLANT: SEPTAGE RECEIVING

Disadvantages

- Additional Labor (Manual Equip/Practices)
- Practices of Few-Clean up issues
- Improper Loads- high strength/toxic loads
- Accounts Receivables (Late Payers)

SEPTAGE TREATMENT ISSUES AT A TREATMENT FACILITY

- Strength of Septage
- Impacts of Septage
- Cost of Septage Treatment
 - Solids Handling
 - Phosphorus concerns
 - Energy

TYPICAL WASTEWATER / SEPTIC TANK COMPARISON

	Residential Wastewater	Septic Tank	
BOD	250 mg/l	6,500 mg/l	26x
TSS	250 mg/l	13,000 mg/l	52x
PO4	8 mg/l	210 mg/l	25x
NH3	20 mg/l	97 mg/l	5x

IMPACT OF SEPTAGE BOD AND TSS

2,000 gallons of Septic Tank waste

“equivalent to”

1 day wastewater from 600 people

IMAGINE...

Impact...

Wastewater from 600 people
discharged in 10 minutes to: ,

- POTW designed for 1,000 people
- POTW designed for 50,000 people

SHOCK LOADING CONCERNS

High volume:

- overwhelm tanks and equipment

High organic strength:

- overwhelm biological processes

Available Capacity

- Plants nearing capacity typically have more issues

System Type:

- Some handle discharges better than others

Ownership:

- Remember who the owner of the facility may be

WPDES Permit

- Receiving Water
- Other